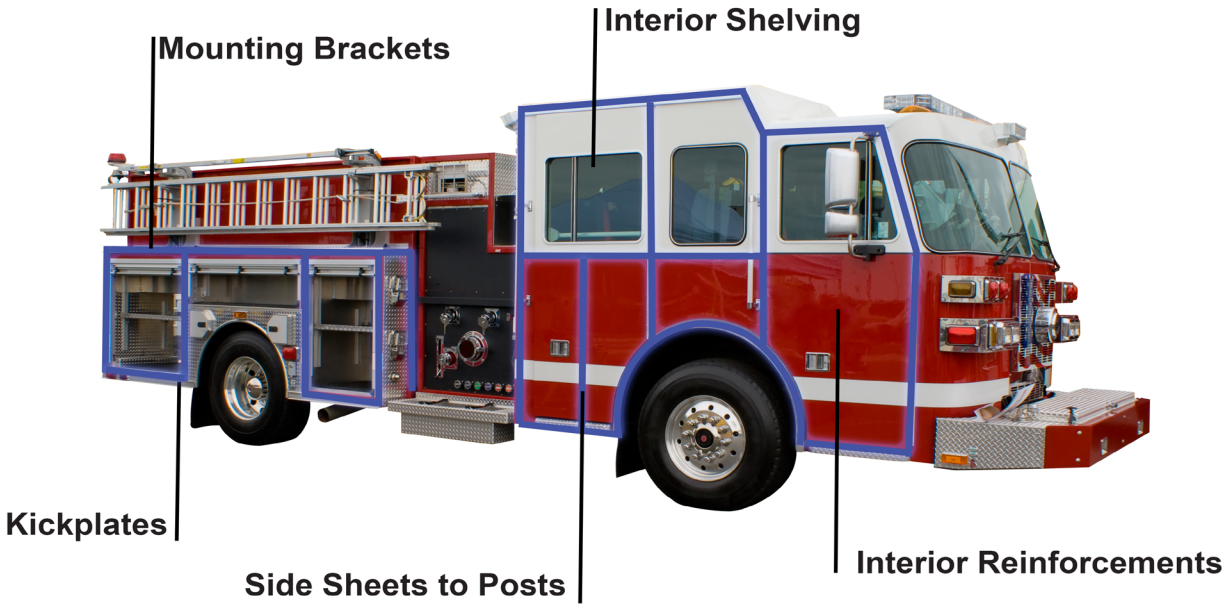
PLEXUS® Structural Bonding Solutions for Emergency Vehicles



The Problem: Mechanical Fasteners

- Create potential leak paths
- Require longer assembly time
- May result in stress cracking leading to shortened vehicle life
- Require thicker gauge metals to ensure enough energy absorption in crash events

The Solution: Plexus® Adhesives

- Eliminate exterior holes by bonding and sealing
- Reduce total cost of assembly. Easy to use, fast curing adhesives that allow multi material bonding with no/low surface preparation
- Extend life of body structure by offering superior toughness, fatigue resistance and uniform stress distribution.

NA: cs@itwpp.com, +1-855-489-7262 • **EMEA:** customerservice.shannon@itwpp.com, +353 61 771 500 • www.itwpp.com

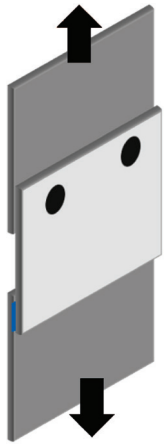
PLEXUS®

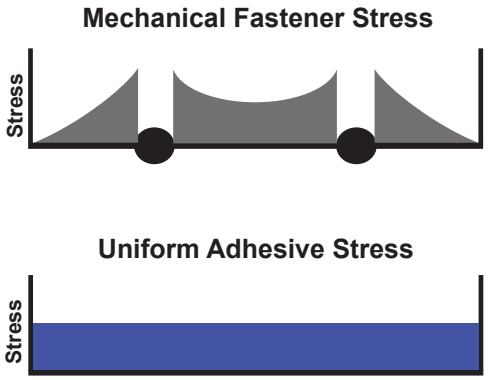
Structural Bonding Solutions for Emergency Vehicles

Product	Description	Mixed color	Mix ratio by volume	Working time, mins	Tensile strength, psi (MPa)	Tensile elongation, %	Aluminum	Coil Coated	Anodized Aluminum	E-Coat	Cold Rolled Steel	HDG	EZG	Galvanneal	Powder Coated	Stainless Steel	FRP
MA8110 GB	Next-generation primerless multimaterial adhesive	Gray	1:1	8 - 12	3,285 (22.7)	25 - 45	++	++	++	++	++	++	++	++	++	++	++
MA8120 GB	Next-generation primerless multimaterial adhesive	Gray	1:1	18 - 22	2,907 (20.5)	30 - 60	++	++	++	++	++	++	++	++	++	++	++
MA205HV	Fastest primerless to metal adhesive	Green	10:1	3 - 5	1,980 (13.7)	15 - 30	++	++	++	++	++	-	-	+	++	++	++
MA830	Primerless to metal adhesive	Gray	10:1	4 - 6	2,620 (18.0)	10 - 20	++	++	++	++	++	-	-	+	++	+*	++
MA832	Primerless to metal adhesive - medium open time	Gray	10:1	12 - 14	2,,790 (19.2)	20 - 40	++	++	++	++	++	-	-	+	++	+*	++
MA420	All purpose toughened adhesive	Blue	10:1	4 - 6	2,430(16.8)	20 - 40	+*	++	+*	++	++	-	-	-	++	++	++
MA320	Excellent low temp impact, white UV stable	White	10:1	8 - 12	1,800 (12.4)	30 - 60	+*	++	+*	++	+*	-	-	-	++	+*	++

*++ Excellent adhesion with no to little surface preparation. + Good adhesion with some surface preparation. - Not recommended. * Use PC120 Cleaner Conditioner for optimum long term environmental durability*

Improved durability with uniform stress distribution





Improved structure strengths with tougher materials